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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/008,582	11/13/2001	Edward A. Green	FURO/06/111	6600
26875	7590 01/13/2004		EXAMINER	
WOOD, HERRON & EVANS, LLP 2700 CAREW TOWER 441 VINE STREET			MCDONALD, SHANTESE L	
			ART UNIT	PAPER NUMBER
CINCINNATI, OH 45202			3723	<i></i>
			DATE MAILED: 01/13/2004	, 6

Please find below and/or attached an Office communication concerning this application or proceeding.



Application No. Applic

Applicant(s)

Green et al.

Office Action Summary

Examiner

10/008,582

McDonald, Shantese

Art Unit **3723**



-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --Period for Reply A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE ____3 ____ MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION. - Extensions of time may be available under the provisions of 37 CFR 1.136 (a). In no event, however, may a reply be timely filled after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely. - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication. - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). - Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b). Status 1) Responsive to communication(s) filed on Oct 17, 2003 2b) X This action is non-final. 2a) This action is **FINAL**. 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11; 453 O.G. 213. Disposition of Claims 4) Claim(s) 1, 3-7, and 9-12 is/are pending in the application. 4a) Of the above, claim(s) is/are withdrawn from consideration. 5) Claim(s) is/are allowed. 6) X Claim(s) 1, 3, 4, 6, 7, and 9-12 is/are rejected. 7) 💢 Claim(s) <u>5</u> is/are objected to. are subject to restriction and/or election requirement. 8) Claims Application Papers 9) \square The specification is objected to by the Examiner. 10) \square The drawing(s) filed on is/are a) \square accepted or b) \square objected to by the Examiner. Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a). 11) The proposed drawing correction filed on is: a) approved b) disapproved by the Examiner. If approved, corrected drawings are required in reply to this Office action. 12) The oath or declaration is objected to by the Examiner. Priority under 35 U.S.C. §§ 119 and 120 13) Acknowledgement is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) \square All b) \square Some* c) \square None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No. 3.
Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). *See the attached detailed Office action for a list of the certified copies not received. 14) Acknowledgement is made of a claim for domestic priority under 35 U.S.C. § 119(e). a) The translation of the foreign language provisional application has been received. 15) Acknowledgement is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121. Attachment(s) 1) Notice of References Cited (PTO-892) 4) Interview Summary (PTO-413) Paper No(s). 5) Notice of Informal Patent Application (PTO-152) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449) Paper No(s).

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DETAILED ACTION

Claim Rejections - 35 USC § 112

1. The following is a quotation of the second paragraph of 35 U.S.C. 112:

The specification shall conclude with one or more claims particularly pointing out and distinctly claiming the subject matter which the applicant regards as his invention.

2. Claim 9 recites the limitation "coil tube" in line 1. There is insufficient antecedent basis for this limitation in the claim.

Claim Rejections - 35 USC § 103

- 3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 4. Claims 1,3,4,6,7,9,10,11 and 12 are rejected under 35 U.S.C. 103(a) as being unpatentable over Reum in view of Wiebe.

Reum teaches a tubular portion, 37, having an external diameter greater than an internal diameter of the tube end, (col. 3, lines 11-14), the tube end having a first external diameter and a second larger diameter when the tubular portion is inserted within the tube end, (fig. 1). Reum also teaches placing a coil spring, 33, around the tube end, the coil spring having an internal diameter less than the second larger diameter of the tube, forcing the tubular portion into the tube

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end causing the tube to expand forcing the coil spring to expand wherein the coil spring exerts continuous radial compressive force around the tube end, (col. 3, lines 55-61).

Reum teaches all the limitations of the claims except for the tube portion being barbed, the coiled spring being forced to expand from 1 to 5%, the spring embedding itself into the exterior surface of the tube, and the spring being made of metal. Wiebe teaches a barbed tube portion, (fig. 1), and a spring having a circular cross section, which embeds itself into the tube, once it has been force to expand, (fig. 1). It would have been obvious to one having ordinary skill in the art at the time the invention was made, to provide the invention of Reum, with a spring with a circular cross section, so that it embeds within the tube upon insertion, and a barbed tube portion, as taught by Wiebe, in order to enhance the tube and spring connection capabilities. In reference to the spring being forced to expand from 1 to 5%, that would have been further obvious, since it has been held that where the general conditions of a claim are disclosed in the prior art, discovering the optimum or workable ranges involves only routine skill in the art, and in reference to the spring being metal, the Wiebe reference teaches that the spring is a wire, (col. 2, lines 19-21), and therefore to use metal would be an obvious design choice.

Allowable Subject Matter

5. Claim 5 is objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

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Response to Arguments

- 6. Applicant's arguments with respect to claims 1-10 have been considered but are moot in view of the new ground(s) of rejection.
- 7. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Shantese McDonald whose telephone number is (703) 308-8722.

Joseph J. Hail, III Supervisory Patent Examiner Technology Center 3700 Page 4

S.L.M.